



Name :

Roll No. :

Invigilator's Signature :

**CS/BCA/SEM-4/BCA-403/2012
2012**

**SOFTWARE PROJECT MANAGEMENT &
QUALITY ASSURANCE**

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :

10 × 1 = 10

- i) Two tools for computing critical path and project completion times from activity networks are
- a) CPM and PERT b) DRE and SQA
- c) FP and LOC d) none of these.
- ii) The linear sequential model of software development is also known as the
- a) Classical life cycle model
- b) Spiral model
- c) Waterfall model
- d) both (a) and (c).



- iii) The number of people required for a software project is determined
 - a) after an estimate of the development effort is made
 - b) by the size of the project budget
 - c) from an assessment of the technical complexity of the system
 - d) all of these.
- iv) Which of the following items are not measured by software project metrics ?
 - a) inputs
 - b) markets
 - c) outputs
 - d) none of these.
- v) Software reliability problems can almost always be traced to
 - a) errors in requirements gathering
 - b) errors in design and implementation
 - c) human error
 - d) errors in operation.
- vi) Outcome of requirement specification phase is
 - a) design document
 - b) develop an SRS
 - c) test the document
 - d) hand over the document.
- vii) Alpha testing is done by
 - a) customer
 - b) developer
 - c) tester
 - d) all of these.
- viii) PERT stands for
 - a) Project Evaluation and Review Technique
 - b) People Evaluation and Review Technique
 - c) Project Estimation and Review Technique
 - d) Product Evaluation and Review Technique.



- ix) Risk identification involves
- | | |
|------------------|-------------------|
| a) Project Risk | b) Technical Risk |
| c) Business Risk | d) all of these. |
- x) Prototype is a
- | |
|---|
| a) mini model of the existing system |
| b) mini model of the proposed system |
| c) working model of the existing system |
| d) none of these. |

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. a) Compare and contrast waterfall model and spiral model.
- b) What do you mean by perfective maintenance ? $3 + 2$
3. a) What do you mean by work breakdown structure ?
- b) Describe Gantt charts briefly. $2 + 3$
4. What are the hierarchical orders of "peoples" involved in a software project ? Describe the tasks performed by each type of people in brief. $2 + 3$
5. What is SPMP ? Why is it essential in S/W engineering ? $2 + 3$
6. What are the 4Ps of Software Project Management ?

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) What do you mean by software quality ? Explain.
- b) Briefly discuss Mc call's Quality factors.
- c) What are the main functions of Quality Assurance Group (QAG) ? $5 + 5 + 5$

